



Southern Nevada Traffic Study

A Presentation to the Nevada Department
of Transportation Board of Directors

August 8, 2016

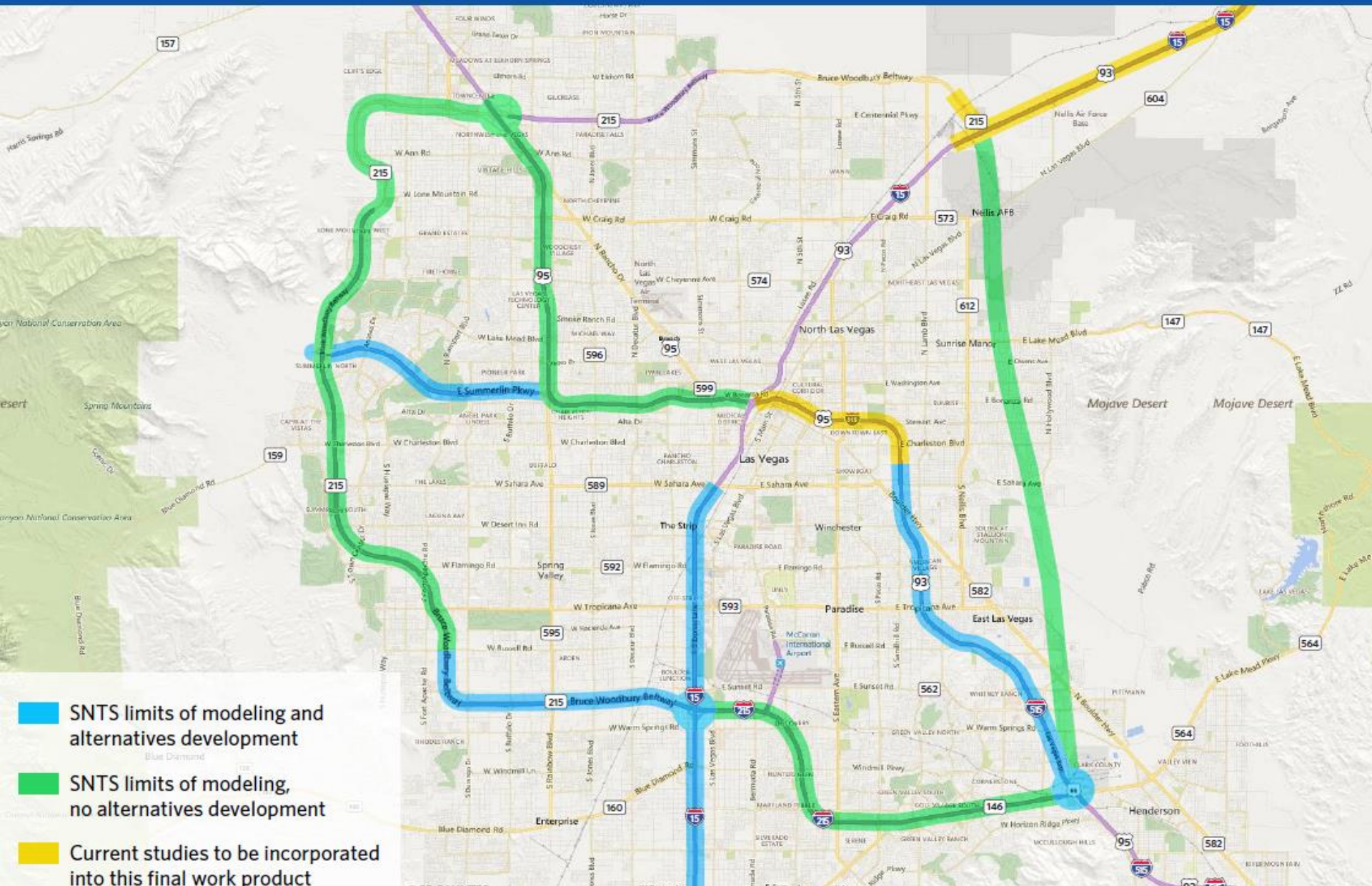
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Southern Nevada Traffic Study

- A region wide traffic forecasting, traffic analyses, alternatives evaluation, and Benefit Cost analyses of all urban Southern Nevada freeways in coordination with on-going projects and studies.
- Evaluate the needs of the region's freeway system and develop improvement strategies to meet the short-term and long terms transportation needs; and maximize benefits of Department's investments.

Southern Nevada Traffic Study Work Limits





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The SNTS limits include all major freeway corridors within the LV Valley with a focus on I-15, US 95, I-515 and I-215

- Traffic Data Collection
- Traffic Forecasting and Planning
- Traffic Operational Analysis
- Benefit-Cost Analysis and Performance Measurement



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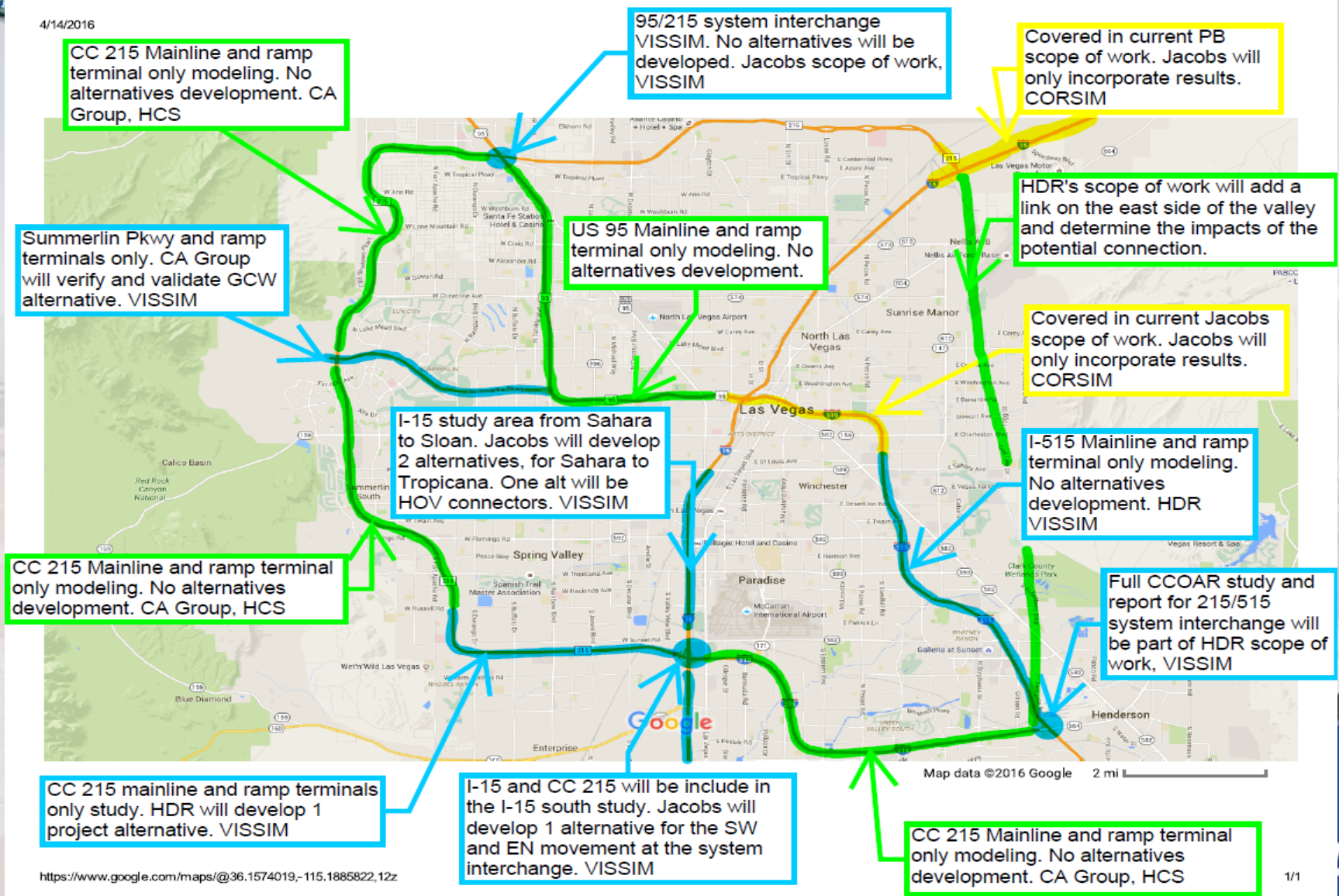
Alternative analyses and Preliminary Design

- At the I-515 and I-215 Interchange
- Along I-15 from Tropicana to Sahara and at the I-15/CC215 System Interchange
- Along the SW CC-215 from I-15 to Tropicana
- Along US 95
- East side link



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4/14/2016





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Why do we need the SNTS now?

- Most of the major NEPA documents are outdated. The traffic analyses were done in 2003 to 2009 and are based upon the 2030 travel demand model
- The studies and environmental documents covered individual segments of major corridors but there are significant gaps in the traffic data
- We need updated projections and analyses to 2035 and 2040
 - To be in compliance with the approved air quality conformity
 - To design and construct projects based upon 20 year projections



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Why is the SNTS so expensive (\$5.3 million)?

- The 2035 Southern Nevada Regional travel demand model that includes mode-choice is very complex
- We are updating to 2035 and projecting to 2040
- The extent of the freeway system being covered by the study including 4 system interchanges and east side link
- Complex computer modeling programs - TransCAD, CORSIM, HCS, VISSIM, Benefit-Cost Model



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Why this team for the SNTS?

- Agenda Item 8a-5 for approval of agreement gives Negotiation Summary and Scope of Work
- Followed NDOT procurement process
- Team consists of key traffic engineers that performed other traffic studies in S. Nevada
 - HDR lead
 - Jacobs – major role, traffic modeling and analysis
 - CA Group – minor role, alternatives analysis and preliminary engineering



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What will the SNTS results be used for moving forward?

- Address performance measures for congestion on urban freeway system
- Assessment and prioritization of future projects based upon updated analyses including benefit-cost
- Traffic data will be used for future projects and NEPA studies following NDOT Planning and Environmental Linkage (PEL) process
 - Noise analysis
 - Mobile Source Air Toxins (MSAT)
 - Pavement Design
 - Change in Control of Access to Interstate System
- I-515 with eastern link will provide valuable data for I-11 in LV Valley.



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